

- 1) Write the commands to create the following directory hierarchy:
-> DOS_Regdno ->DOSass1->dir1

c

```
(munu@Munu)-[~]
$ mkdir DOS_2241019580

(munu@Munu)-[~]
$ cd DOS_2241019580

(munu@Munu)-[~/DOS_2241019580]
$ mkdir DOSass1

(munu@Munu)-[~/DOS_2241019580]
$ cd DOSass1

(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ mkdir dir1

(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ cd dir1

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$
```

- 2) Write the commands to create another directory with name dir2 in directory DOSass1 and make dir2 as the current working directory.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ..

(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ mkdir dir2

(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ cd dir2

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir2]
$ ..
```

- 3) Write the command to delete the directory dir2 , when DOS_Regdno will be the current working directory.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ ls
dir1 dir2

(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ ..

(munu@Munu)-[~/DOS_2241019580]
$ rmdir -p /home/munu/DOS_2241019580/DOSass1/dir2
rmdir: failed to remove directory '/home/munu/DOS_2241019580/DOSass1': Directory not empty

(munu@Munu)-[~/DOS_2241019580]
$ cd DOSass1

(munu@Munu)-[~/DOS_2241019580/DOSass1]
$ ls
dir1
```

- 4) Write the command to create a file named as file1 using cat command inside dir1. Write your name, regdno, branch, semester and section in file1. Then display the content of the file.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat >file1
Abhasha Kumar Swain
2241019580
CSIT
5th sem
Section 30^C

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat file1
Abhasha Kumar Swain
2241019580
CSIT
5th sem
```

- 5) Write the command to create a file named as file2 using cat command inside dir1. Write your semester wise SGPA in file2.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat > file2
1st Sem : 8.87
2nd Sem : 9.47
3rd Sem : 9.79
4th sem : 9.71
^C

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat file2
1st Sem : 8.87
2nd Sem : 9.47
3rd Sem : 9.79
4th sem : 9.71
```

- 6) Create a file named as file3 storing content of file1 merged with content of file2.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat file1 file2 > file3

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat file3
Abhasha Kumar Swain
2241019580
CSIT
5th sem
1st Sem : 8.87
2nd Sem : 9.47
3rd Sem : 9.79
4th sem : 9.71
```

- 7) Write the command to rename file2 as markinfo.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ mv file2 markinfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat markinfo
1st Sem : 8.87
2nd Sem : 9.47
3rd Sem : 9.79
4th sem : 9.71
```

- 8) Write the command to copy the content of file1 to reginfo.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cp file1 reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat file1
Abhasha Kumar Swain
2241019580
CSIT
5th sem

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat reginfo
Abhasha Kumar Swain
2241019580
CSIT
5th sem
```

- 9) Write the command to display the inode values of file1, markinfo, reginfo.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls
file1 file3 markinfo reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -i file1
1179773 file1

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -i markinfo
1179774 markinfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -i reginfo
1179776 reginfo
```

- 10) Write the command to delete file1.

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ rm file1

(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ ls
file3  markinfo  reginfo
```

- 11) Write the command to count the number of lines, words, characters in markinfo.

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ wc markinfo
4 16 60 markinfo
```

- 12) Write the command to create a file named as Personalinfo inside dir1. Write your name, regdno, address in the file.

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ cat > Personalinfo
Name: Abhasha Kumar Swain
Regd no: 2241019580
Adress: Bbsr,Odisha
^C
```

- 13) Write the command to display the content of markinfo in reverse order.

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ tac markinfo
4th sem : 9.71
3rd Sem : 9.79
2nd Sem : 9.47
1st Sem : 8.87
```

- 14) Check the output of the following command:
cmp reginfo personalinfo
diff reginfo personalinfo

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ cmp reginfo Personalinfo
reginfo Personalinfo differ: byte 1, line 1

(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ diff reginfo Personalinfo
1,4c1,3
< Abhasha Kumar Swain
< 2241019580
< CSIT
< 5th sem
—
> Name: Abhasha Kumar Swain
> Regd no: 2241019580
> Adress: Bbsr,Odisha
```

- 15) Write a command to count the number of files in the current working directory and display that number.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -l | wc -l
4

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls
Personalinfo  file3  markinfo  reginfo
```

- 16) Write a command to include all the file names present in a current working directory in a file named as filelist without causing filelist to be included in the names.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls | grep -v "^filelist$" > filelist

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ cat filelist
Personalinfo
file3
markinfo
reginfo
```

- 17) Write a command to give write permission to all the users of file reginfo.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ chmod a+w reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -l reginfo
-rw-rw-rw- 1 munu munu 44 Sep 29 20:47 reginfo
```

- 18) Write a command to discard write permission from group users group users of file reginfo.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ chmod a+rx reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -l reginfo
-rwxrwxrwx 1 munu munu 44 Sep 29 20:47 reginfo
```

- 19) Write the command to set rwx permissions for all the users of file reginfo.

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ chmod a-w reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ ls -l reginfo
-r--r--r-- 1 munu munu 44 Sep 29 20:47 reginfo
```

20) Differentiate between following commands:

`date; pwd`

`date; pwd | wc -l`

`(date; pwd) | wc -l`

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ date ; pwd
Sun Sep 29 22:25:36 IST 2024
/home/munu/DOS_2241019580/DOSass1/dir1
```

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ date ; pwd | wc -l
Sun Sep 29 22:28:27 IST 2024
1
```

```
(munu@Munu) - [~/DOS_2241019580/DOSass1/dir1]
$ (date;pwd) | wc -l
2
```

21) Interpret the output of the following commands:

```
echo *
echo ***
echo '***'
echo \***
echo \*\**
echo */*
echo Don't do this
echo "Don't do this" (Quotes of one kind protect quotes of other kind)
echo Hello # world
echo " Hello # world"
echo ' Hello # world'
echo date
echo 'date'
echo "date"
echo `date`
```

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo *
Personalinfo file3 filelist markinfo reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo ***
Personalinfo file3 filelist markinfo reginfo

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo '***'
***

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo \***
***

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo \*\**
***

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo */*
*/*
```



```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo Don't do this
quote>
quote>
quote> Hi
quote> how are you

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo "Don't do this"
Don't do this
```

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo hello # world
hello

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo "Hello # world"
Hello # world

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo 'Hello # world'
Hello # world
```

```
(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo date
date

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo 'date'
date

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo "date"
date

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo "date"

(munu@Munu)-[~/DOS_2241019580/DOSass1/dir1]
$ echo `date`
Sun Sep 29 22:39:05 IST 2024
```